

**Claims**

1. An apparatus for spooling wire with a leading wire end and a trailing wire end comprising:  
a spool body about which the wire is wound in  $N$  windings, the spool body having  
a spool drum and side walls on both sides; and  
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a magnet disposed in the spool body such that the magnetic field lines of the  
magnet are arranged along the magnet essentially parallel to the winding direction  
of the wire on the spool drum.  
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2. An apparatus according to claim 1, wherein the magnet is a distance to one spool  
wall such that a specific number of wire windings  $n$  remain on the spool drum  
when no windings remain over the magnet.  
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3. An apparatus according to claim 1, wherein the first  $n$  windings are fastened with  
an adhesive element.  
4. An apparatus according to claim 1 further comprising a plug-in magnet mount for  
mounting the magnet in the wire spool.  
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5. An apparatus according to claim 4, wherein the magnet has latching hooks that  
engage with the spool body.  
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6. An apparatus according to claim 1 further comprising a holding device for a  
straight trailing wire end or a straight leading wire end.  
7. An apparatus according to claim 1 further comprising a holding device for a  
straight trailing wire end, whereby the holding device has a locking element that  
prevents the trailing wire end from pulling out of the holding device.  
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8. An apparatus according to claim 1 further comprising holding devices for a straight leading wire end, whereby the holding devices are present in a number of places on the circumference of the spool walls.
- 5 9. A method for detecting wire spooled on a drum comprising the steps of:
  - arranging magnetic field lines essentially parallel to the winding direction of the wire;
  - detecting via a magnet sensor the absence of wire between the magnet sensor and the magnet.